



Maritime Navigation and Information Services

Maritime Navigation and Information Services



MarNIS
i.r.t.



River Information Services

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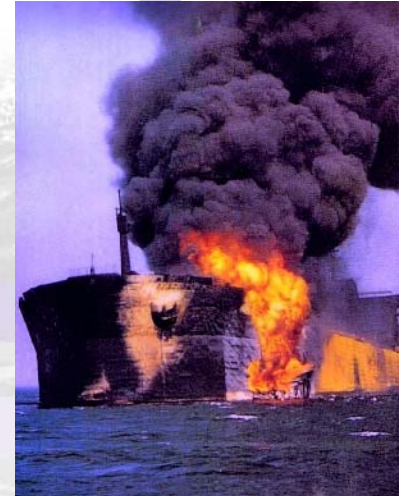
Why MarNIS on a Smart Rivers conference?

- RIS paved the way for MarNIS
- Co-modality will strengthen the transport chain
- Creates Win-Win for waterborne transport
- Processes, standards and technology are for an important part the same



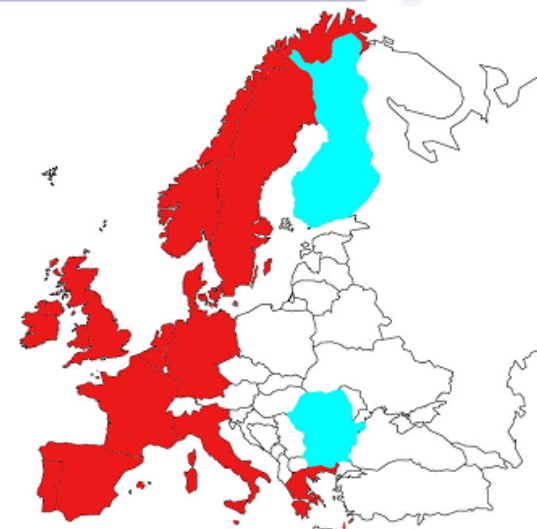
Content of the Presentation

- Project characteristics
- MarNIS integrated approach
- E-maritime concept
- Relation with RIS



MarNIS

- Project type: FP6 - Integrated Project
- Responsible organisation EC: DG TREN
- Project duration: 4 Years
- Starting date: November 2004
- 44 Partners and 12 subcontractors from 13 countries:
 - Ministries of Transport and Port Authorities;
 - Branch organisations (Harbour masters, Pilots);
 - Industry & IT companies;
 - Universities & Research institutes
- Coordinator: AVV Transport Research Centre of the Dutch Ministry of Transport, Public Works and Water Management

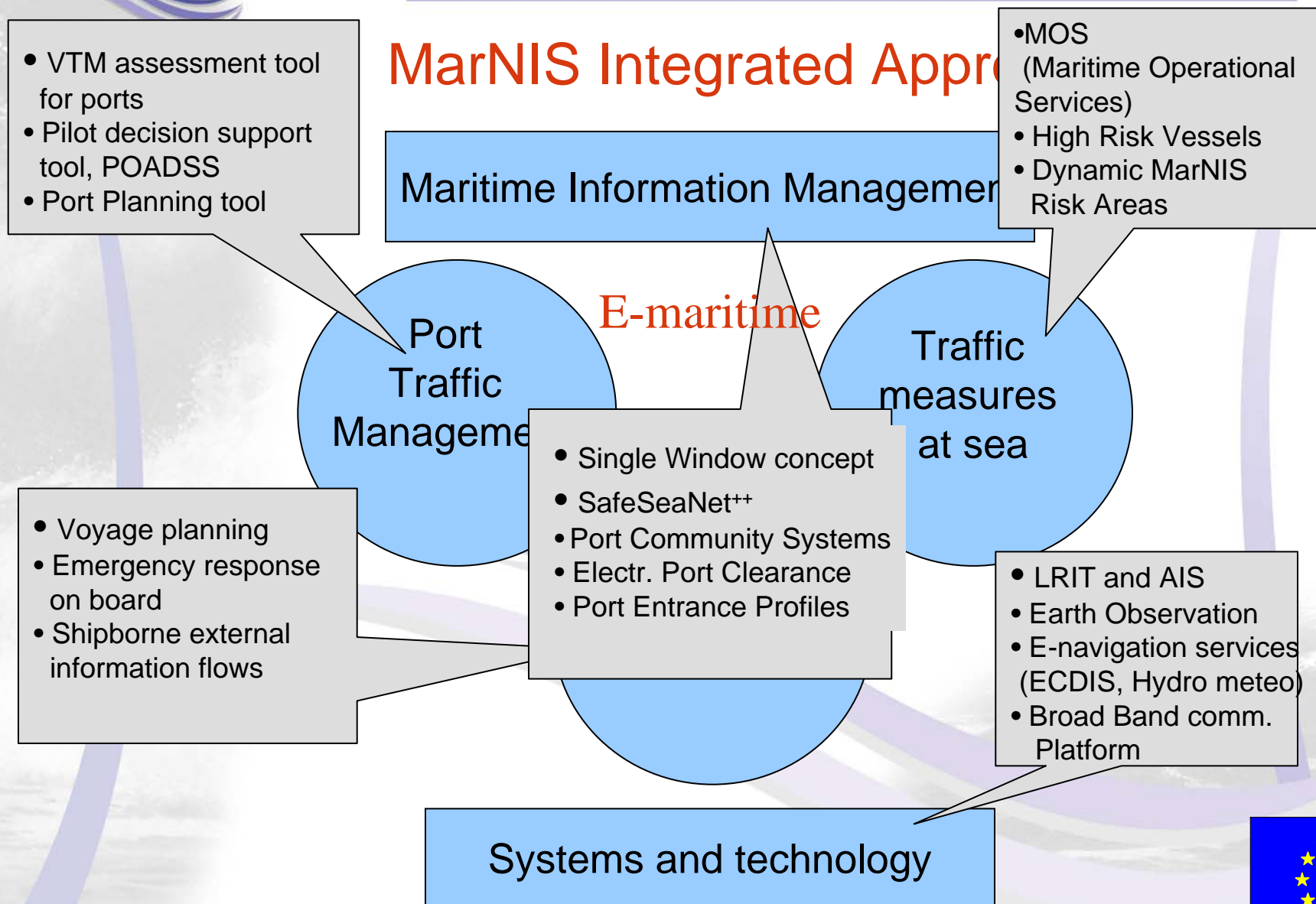


Objectives

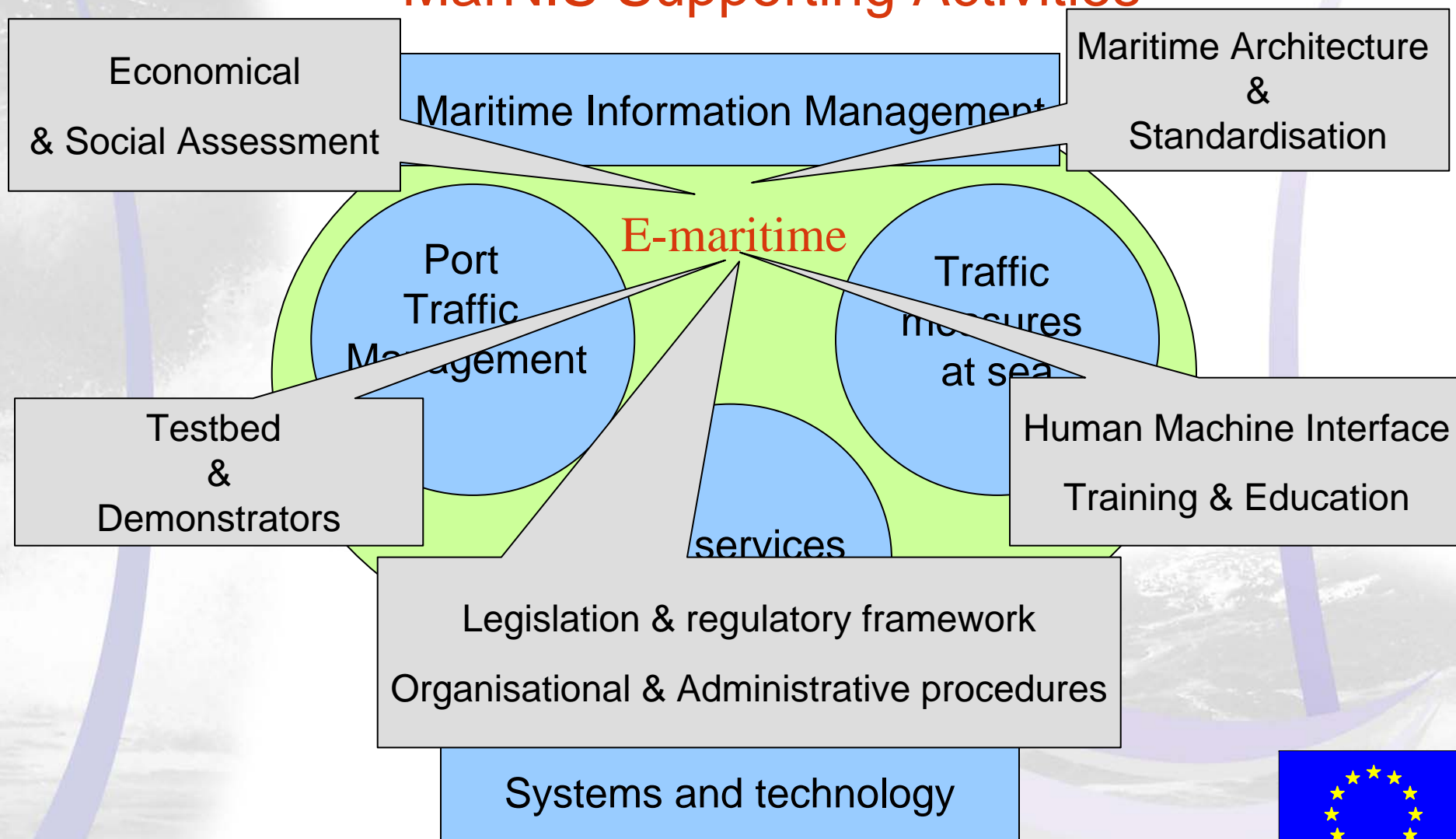
- Improvement of safety, efficiency of maritime transport and the protection of the environment;
- Improvement of efficiency and reliability of information flows;
- Development of proposals for administrative, organisational and procedural changes;
- Development of proposals for new legislation



MarNIS Integrated Approach



MarNIS Supporting Activities



MarNIS E-maritime Concept focus 2012

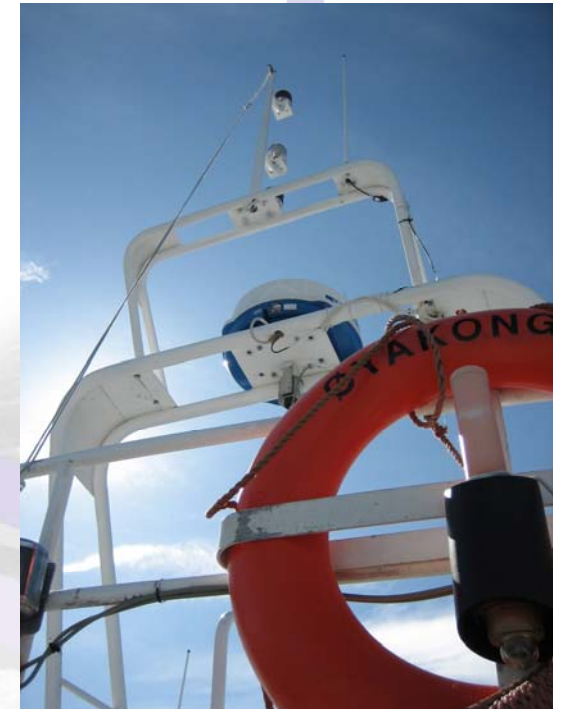
Basic elements:

- Maritime Operational Services (MOS)
- Information Management
- VTM in ports

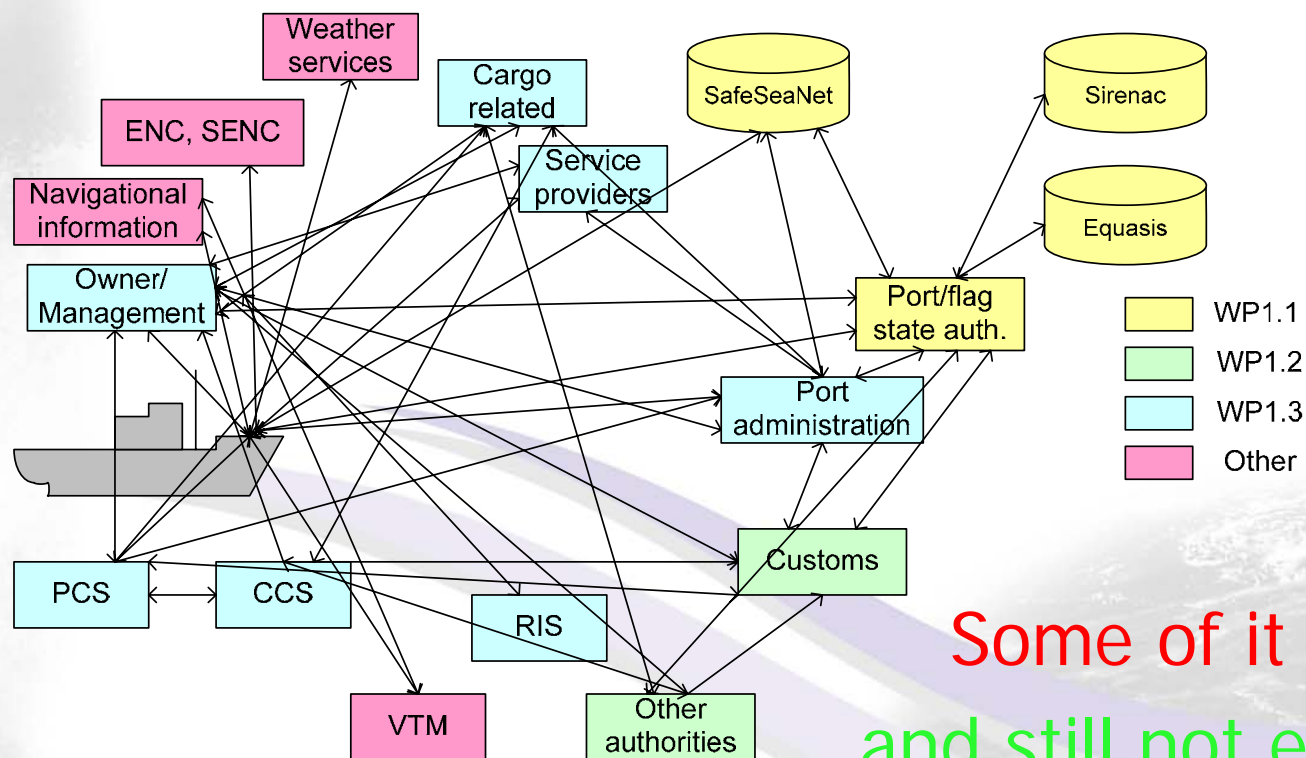


Maritime Operational Services (MOS)

- Builds on existing services for Search and Rescue and Vessel Traffic Management
 - Reduced Vessel Traffic Services;
 - Oil Pollution Response;
 - Maritime Assistance Services;
 - Search and Rescue (SAR);
 - Enforcement;
 - Aids to navigation, Marine marking service ;
 - Hydro/meteo services;
- Traffic image from :
 - AIS, LRIT and other sensors not necessarily radar
- Dynamic Maritime Risk Areas
 - MarNIS RISK indices for High Risk Vessels;
 - Weather, location and traffic dependent



Today's Information Flow

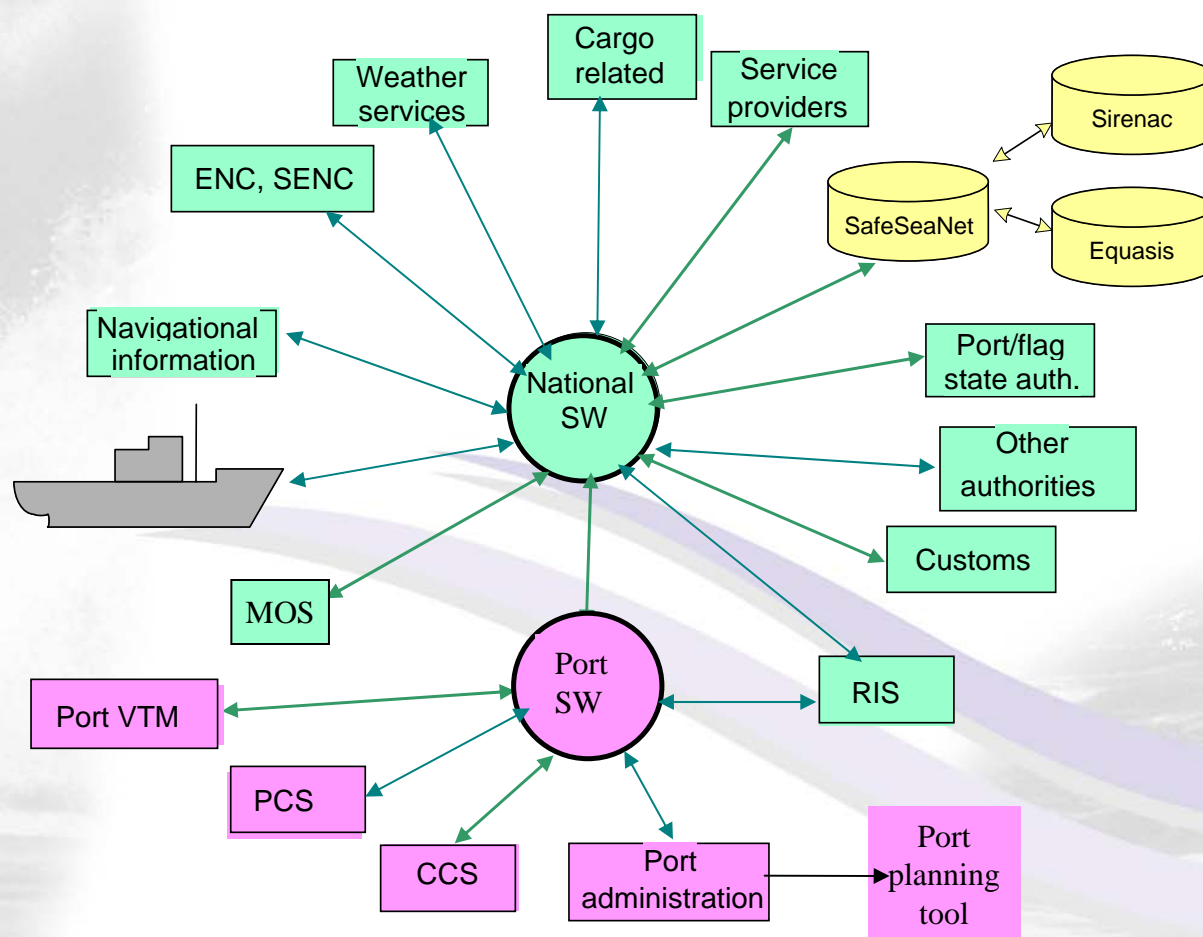


Some of it !

... and still not enough !



MarNIS: Single Window Concept

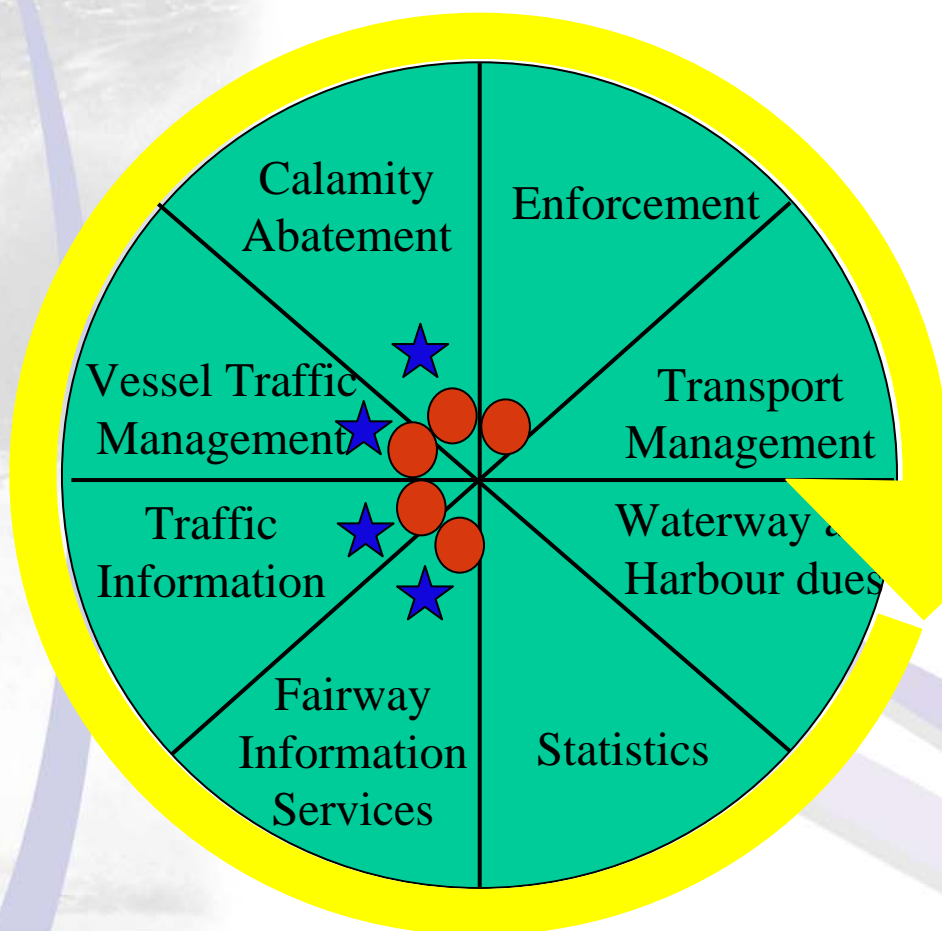


VTM in Ports

- VTM assessment tool
 - Baseline document: Port characteristics
 - Questionnaires or accident statistics: Hazard ranking list
 - VTM strategic advice
 - Cost/benefit report
- Port Planning Tool
- POADSS – Portable Pilot Unit
 - Dynamic under keel clearance
 - More accurate berthing facilities



MarNIS and RIS



- Standards
- Architecture
- Legislation

● MOS

★ VTM in ports

■ Information Management





Thank you for your attention

for more information: www.marnis.org



Maritime Navigation and Information Services



SafeSeaNet⁺⁺

- SafeSeaNet nowadays
 - European Index Server; European Platform for Maritime Data Exchange between Member States' maritime authorities based on the concept of a distributed databases;
 - Collection, dissemination and harmonised exchange of maritime data;
 - Prevention of accidents at sea and marine pollution
- Add-on: Alert and security messaging based on MarNIS conceptual advise
- MarNIS: SafeSeaNet towards 2012
 - Voyage plan server;
 - LRIT repository;
 - Request and response server;
 - Reference databases



Single Window Concept

- More efficient communication
 - Master/agent will report once
- Early reporting
- Separation of responsibilities



Port Entrance Profiles (1)

Nowadays:

- Master/agents reports to different authorities
- More or less the same information
- Often making use of IMO FAL messages/forms

MarNIS:

- Master/agent reports once to NSW
- NSW compiles Port Entrance Profile Messages
- NSW informs the other Authorities



Port Entrance Profiles (2)

- IMO FAL messages
 - Overlap in information
 - Authorities select the information they need and ask often for additional information
- PEPs
 - Tailor made, directly linked to the tasks of the authorities
 - More information related to the tasks
 - Cross Reference Checks
- Based on PEPs Port Clearance will be given

